

Prepared for:

DB Natural Caps - 21082002-01

Elixinol LLC


Batch ID or Lot Number: 21082002-01	Test: Potency	Reported: 12/1/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: Unit	Test ID: T000178122	Started: 11/30/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 11/23/2021 @ 03:14 PM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.070	0.201	ND	ND	# of Servings = 1 Sample Weight=0.544g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.079	0.227	0.415	0.76	
Cannabidiolic acid (CBDA)	0.077	0.231	0.128*	0.24*	
Cannabidiol (CBD)	0.075	0.225	16.809	30.89	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.086	0.250	ND	ND	
Cannabinolic Acid (CBNA)	0.050	0.143	ND	ND	
Cannabinol (CBN)	0.023	0.065	0.045*	0.08*	
Cannabigerolic acid (CBGA)	0.073	0.210	ND	ND	
Cannabigerol (CBG)	0.017	0.050	0.163	0.30	
Tetrahydrocannabivarinic Acid (THCVA)	0.061	0.177	ND	ND	
Tetrahydrocannabivarin (THCV)	0.016	0.046	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.032	0.096	ND	ND	
Cannabidivarin (CBDV)	0.018	0.053	0.058	0.11	
Cannabichromenic Acid (CBCA)	0.028	0.081	ND	ND	
Cannabichromene (CBC)	0.031	0.088	0.375	0.69	
Total Cannabinoids			17.993	33.07	
Total Potential THC**			0.415	0.76	
Total Potential CBD**			16.921	31.10	

 Jacob Miller
01-Dec-2021
03:51 PM

 Ryan Weems
1-Dec-21
3:52 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa *(0.877)) and

Total CBD = CBD + (CBDa *(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



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Certificate #4329.02

Prepared for:

DB Natural Caps - 21082002-01
Elixinol LLC

Batch ID or Lot Number: 21082002-01	Test: Pesticides	Reported: 12/2/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: Concentrate	Test ID: T000178123	Started: 12/1/21	USDA License: N/A
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Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 11/23/2021 @ 03:14 PM	Sampler ID: N/A
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PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	39	ND	Fenoxycarb	43	ND	Paclobutrazol	48	ND
Acetamiprid	41	ND	Fipronil	50	ND	Permethrin	284	ND
Avermectin	339	ND	Flonicamid	48	ND	Phosmet	39	ND
Azoxystrobin	46	ND	Fludioxonil	316	ND	Prophos	312	ND
Bifenazate	41	ND	Hexythiazox	39	ND	Propoxur	44	ND
Boscalid	36	ND	Imazalil	283	ND	Pyridaben	290	ND
Carbaryl	41	ND	Imidacloprid	50	ND	Spinosad A	35	ND
Carbofuran	44	ND	Kresoxim-methyl	150	ND	Spinosad D	52	ND
Chlorantraniliprole	67	ND	Malathion	302	ND	Spiromesifen	290	ND
Chlorpyrifos	500	ND	Metalaxyl	44	ND	Spirotetramat	290	ND
Clofentezine	293	ND	Methiocarb	43	ND	Spiroxamine 1	19	ND
Diazinon	284	ND	Methomyl	42	ND	Spiroxamine 2	24	ND
Dichlorvos	293	ND	MGK 264 1	203	ND	Tebuconazole	306	ND
Dimethoate	42	ND	MGK 264 2	123	ND	Thiacloprid	41	ND
E-Fenpyroximate	280	ND	Myclobutanil	42	ND	Thiamethoxam	43	ND
Etofenprox	44	ND	Naled	47	ND	Trifloxystrobin	44	ND
Etoxazole	304	ND	Oxamyl	1500	ND			


 Karen Winternheimer
 12/2/2021
 3:50:00 PM


 Sam Smith
 12/2/2021
 3:57:00 PM

PREPARED BY / DATE

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Definitions

LOQ = Limit of Quantification
 ppb = Parts per Billion

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



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Prepared for:


DB Natural Caps - 21082002-01

Elixinol LLC


Batch ID or Lot Number: 21082002-01	Test: Metals	Reported: 12/1/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Unit Co	Test ID: T000178125	Started: 11/30/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 11/23/2021 @ 03:14 PM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.046 - 4.63	ND	
Cadmium	0.045 - 4.47	ND	
Mercury	0.044 - 4.42	ND	
Lead	0.044 - 4.42	ND	

 Ryan Weems
1-Dec-21
3:19 PM

PREPARED BY / DATE

 Sam Smith
1-Dec-21
3:22 PM

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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Prepared for:

DB Natural Caps - 21082002-01

Elixinol LLC


Batch ID or Lot Number: 21082002-01	Test: Residual Solvents	Reported: 12/1/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: N/A	Test ID: T000178126	Started: 11/30/21	USDA License: N/A
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Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 11/23/2021 @ 03:14 PM	Sampler ID: N/A
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RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	95 - 1904	*ND	
Butanes (Isobutane, n-Butane)	188 - 3769	*ND	
Methanol	56 - 1118	*ND	
Pentane	78 - 1550	*ND	
Ethanol	79 - 1583	*ND	
Acetone	91 - 1827	*ND	
Isopropyl Alcohol	95 - 1906	*ND	
Hexane	6 - 110	*ND	
Ethyl Acetate	92 - 1831	*ND	
Benzene	0.2 - 3.7	*ND	
Heptanes	86 - 1725	*ND	
Toluene	17 - 333	*ND	
Xylenes (m,p,o-Xylenes)	120 - 2402	*ND	

 Ryan Weems
1-Dec-21
3:24 PM

 Daniel Weidensaul
1-Dec-21
3:30 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

* ND = None Detected (Defined by Dynamic Range of the method)

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Prepared for:

DB Natural Caps - 21082002-01
Elixinol LLC


Batch ID or Lot Number: 21082002-01	Test: Microbial Contaminants	Reported: 12/2/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
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Matrix: Finished Product	Test ID: T000178124	Started: 11/29/21	USDA License: N/A
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Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 11/23/2021 @ 03:14 PM	Sampler ID: N/A
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MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	


 Jackson Osaghae-Nosa
 12/2/2021
 9:49:00 AM


 Brianne Maillot
 12/2/2021
 10:36:00 AM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10² = 100 CFU
 10³ = 1,000 CFU
 10⁴ = 10,000 CFU
 10⁵ = 100,000 CFU

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Prepared for:

DB Natural Caps - 21082002-01
Elixinol LLC

Batch ID or Lot Number: 21082002-01	Test: Mycotoxins	Reported: 12/2/21	Location: 10170 Church Ranch Way, Ste 400 Westminster, CO 80021
Matrix: Concentrate	Test ID: T000178127	Started: 11/30/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 11/23/2021 @ 03:14 PM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.5 - 137.2	ND	N/A
Aflatoxin B1	1.2 - 34.7	ND	
Aflatoxin B2	1.1 - 34.7	ND	
Aflatoxin G1	0.9 - 33.7	ND	
Aflatoxin G2	1.2 - 33	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	



 Sam Smith
 2-Dec-21
 8:57 AM

PREPARED BY / DATE



 Alex Smith
 2-Dec-21
 12:20 PM

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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Certificate #4329.02

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Sample Name:	DB Natural Caps - 21082002-01	Eurofins Sample:	11178774
Project ID	ELIXINOL-20211122-0044	Receipt Date	23-Nov-2021
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	21082002-01	Login Date	22-Nov-2021
Sample Serving Size	1 Cap	Date Started	24-Nov-2021
		Sampled	Sample results apply as received
		Number Composited	20
		Online Order	13484-165E8C20

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.5610 g
Entity Fill Weight	0.4557 g
Enterobacteriaceae Plate Count *	
Enterobacteriaceae	<10 CFU/g
Glyphosate and AMPA	
Glyphosate	<100 ng/g
AMPA	<100 ng/g

Method References	Testing Location
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Calculated Sample Weight (PREP)	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
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Enterobacteriaceae Plate Count (EBPC)	EML New Berlin 2345 S 170th St New Berlin, WI 53151 USA
----------------------------------------------	-------------------------------------------------------------------

Compendium of Methods for the Microbiological Examination of Foods: Enterobacteriaceae, Coliforms, and Escherichia coli as Quality and Safety Indicators, Chapter 8, 4th Edition, 2001.

Glyphosate and AMPA (GLY_AMPAS)	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
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Monsanto Company Method ME-1466-02, "High Throughput Assay for Glyphosate and AMPA in Raw Agricultural Commodities and Processed Fractions Using LC/MS/MS".

Certificate of Analysis

Elixinol, LLC

10170 Church Ranch
Westminster Colorado 80021 United States

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Eurofins Food Chemistry Testing Madison, Inc.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375

**Edward Ladwig - President Eurofins Food
Chemistry Testing Madison**



2918.01

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins. Measurement uncertainty for individual analyses can be obtained upon request.